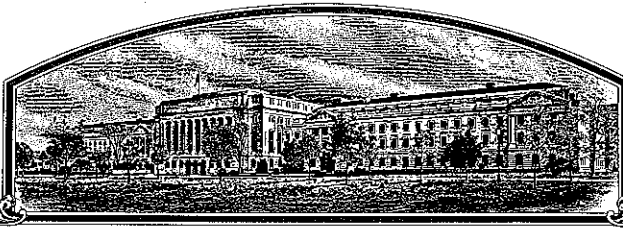


No.



9600402

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

*Terral Seed, Inc.*

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542. AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Terral TV8555'



Attest:

*Ann Marie Thro*

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of July in the year of our Lord one thousand nine hundred and ninety-nine.

*Don Dickinson*

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER		3. VARIETY NAME	
Terral Seed, Inc.		L890714		Terral TV8555	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)		<b>FOR OFFICIAL USE ONLY</b> PVPO NUMBER 9600402	
P.O. Box 826 604 Blount Street Lake Providence, LA 71254		(318) 559-2840			
		6. FAX (include area code)		F I L I N G DATE Sept. 23, 1996	
		(318) 559-2888		F E E DATE Sept. 23, 1996	
7. GENUS AND SPECIES NAME		8. FAMILY NAME (Botanical)		F I L I N G DATE Sept. 23, 1996	
Triticum aestivum		Gramineae		F E E DATE Sept. 23, 1996	
9. CROP KIND NAME (Common name)					
Wheat					
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)					
Corporation					
11. IF INCORPORATED, GIVE STATE OF INCORPORATION			12. DATE OF INCORPORATION		
Louisiana			1953		
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS				14. TELEPHONE (include area code)	
Thomas F. Terral P.O. Box 826 Lake Providence, LA 71254				(318) 559-2840	
				15. FAX (include area code)	
				(318) 559-2888	
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)					
<input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository) <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)					
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(e) of the Plant Variety Protection Act)					
<input type="checkbox"/> YES (If "yes," answer items 18 and 19 below) <input checked="" type="checkbox"/> NO (If "no," go to item 20)					
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?			19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?		
<input type="checkbox"/> YES <input type="checkbox"/> NO			<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?					
<input type="checkbox"/> YES (If "yes," give names of countries and dates) <input checked="" type="checkbox"/> NO					
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.					
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.					
Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF APPLICANT (Owner(s))			SIGNATURE OF APPLICANT (Owner(s))		
Thomas F. Terral					
NAME (Please print or type)			NAME (Please print or type)		
Thomas F. Terral					
CAPACITY OR TITLE		DATE	CAPACITY OR TITLE		DATE
President		9/17/96			

**EXHIBIT A****Breeding History of Terral TV8555**

<u>YEAR</u>	<u>ACTIVITY</u>	<u>GENERATION</u>
1982-83	Cross (Saluda/FL74265-10-A2-B2) Note: FL744265-10-A2-B2 is an unreleased germplasm line which has a pedigree of: Predgozaia 2/3/Blueboy II/Coker 68-8//Fulbarn.	
1983-84	Greenhouse Bulk - non selected	F1
1984-85	Greenhouse Bulk - non selected	F2
1985-86	Greenhouse Bulk - non selected - 86sp61	F3
1986-87	87DSP-1 Bulk -non selected	F4
1987-88	Head Row #13179 - Selected for the following traits observed to be segregating among lines: leaf rust and stem rust resistance, heading date and maturity date, stalk strength, color, and plant height.	F5
1988-89	Observation Nursery plot #5577 - Selected for the following traits observed to be segregating among lines: leaf rust and stem rust resistance, heading date and maturity date, stalk strength, color, and plant height.	F6
1989-90	Preliminary Yield Testing - 7 locations (L890714) Selected for the following traits observed to be segregating among lines: Seed yield, leaf rust and stem rust resistance, heading date, and maturity date, stalk strength, color, and plant height.	F7
1990-91	Advanced yield tested. Determined to be stable and breeding true for disease resistance, maturity, heading date, uniformity, plant height, color, and yield across 4 generations. 5 locations - seed stock increase	F8
1991-92	Elite Yield Testing - same traits, 9 locations - increase	F9
1992-93	Elite Yield Testing- same traits, 9 locations - increase	F10
1993-94	Elite Yield Testing - same traits, 10 locations - Seed stock 2 ac increase.	F11
1994-95	Transferred to Terral Seed through purchase of the variety First commercial seed increase.	F12

**EXHIBIT B****Statement of Distinctness**

To our knowledge, Terral TV8555 most resembles Saluda and Blueboy II.

Differences include, but are not necessarily restricted to the following:

1. Terral TV8555 possesses Leaf Rust genes (Lr) 24 and 26, Stem Rust genes (Sr) 17 and 24<sup>11</sup> and Saluda is a parent of TV8555 and contains Leaf Rust resistance gene 11 and no stem rust resistance genes.
2. Terral TV8555 has stem anthocyanin present and Blueboy II does not.
3. Terral TV8555 has auricle hairiness present and Blueboy II does not.
4. Terral TV8555 has a strap head shape and Saluda has a tapering head shape.
5. Terral TV8555 does not have collared seed shape and Saluda has collared seed shape.
6. Terral TV8555 has a dark brown phenol reaction and Saluda has a fawn phenol reaction.
7. Terral TV8555 has a glume break shape of acute and Saluda has obtuse shape to the glumes.
8. Terral TV8555 has seed brush length short and Saluda has medium brush length.
9. Terral TV8555 is awnletted and Blueboy II is apically awnletted.

These statements clearly identify distinctness between Terral TV8555 and the two most similar varieties. Both varieties are listed in the pedigree.

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (*Triticum* spp.)

NAME OF APPLICANT(S) Terral Seed, Inc.	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 826 604 Blount Street Lake Providence, LA 71254	PVPO NUMBER 9600402
	VARIETY NAME Terral TV8555
	TEMPORARY OR EXPERIMENTAL DESIGNATION L890714

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g.    or   ) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: \_\_\_\_\_

Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:

1

1=Common

2=Durum

3=Club

4=Other (SPECIFY) \_\_\_\_\_

2. VERNALIZATION:

2

1=Spring

2=Winter

3=Other (SPECIFY) \_\_\_\_\_

3. COLEOPTILE ANTHOCYANIN:

2

1=Absent

2=Present

4. JUVENILE PLANT GROWTH:

3

1=Prostrate

2=Semi-erect

3=Erect

5. PLANT COLOR (boot stage):

2

1 = Yellow-Green

2 = Green

3 = Blue-Green

6. FLAG LEAF (boot stage):

1

1 = Erect

2 = Recurved

1

1 = Not Twisted

2 = Twisted

7. EAR EMERGENCE:

0  4

Number of Days Earlier Than \_\_\_\_\_ Coker 9835

0  3

Number of Days Later Than \_\_\_\_\_ Agripro Hickory

8. ANTHIER COLOR:

1

1 = YELLOW

2 = PURPLE

9. PLANT HEIGHT (from soil to top of head, excluding awns):

0  3

cm Taller Than \_\_\_\_\_ Agripro Hickory

0  3

cm Shorter Than \_\_\_\_\_ Coker 9835

9600402

## A. ANTHOCYANIN

☒ 1 = Absent      2 = Present

## B. WAXY BLOOM

☒ 1 = Absent      2 = Present

## C. HAIRINESS (last internode of rachis)

☒ 2 = Absent      2 = Present

## D. INTERNODE (SPECIFY NUMBER)

☒ 1 = Hollow      2 = Semi-solid      3 = Solid

## E. PEDUNCLE

☐ 1 = Absent      2 = Present

☐ cm Length

## 11. HEAD (at Maturity):

## A. DENSITY

☒ 3 = Lax      2 = Middense      3 = Dense

## B. SHAPE

☒ 2 = Tapering      2 = Strap      3 = Clavate      4 = Other (SPECIFY)

## C. CURVATURE

☒ 1 = Erect      2 = Inclined      3 = Recurved

## D. AWNEDNESS

☒ 4 = Awnless      2 = Apically Awnletted      3 = Awnletted      4 = Awned

## 12. GLUMES (at Maturity):

## A. COLOR

☒ 2 = White      2 = Tan      3 = Other (SPECIFY)

## B. SHOULDER

☒ 2 = Wanting      2 = Oblique      3 = Rounded      4 = Square      5 = Elevated      6 = Apiculate

## C. BEAK

☒ 2 = Obtuse      2 = Acute      3 = Acuminate

## D. LENGTH

☒ 2 = Short (ca. 7mm)      2 = Medium (ca. 8mm)      3 = Long (ca. 9mm)

## E. WIDTH

☒ 2 = Narrow (ca. 3mm)      2 = Medium (ca. 3.5mm)      3 = Wide (ca. 4mm)

## 13. SEED:

## A. SHAPE

☒ 1 = Ovate      2 = Oval      3 = Elliptical

## B. CHEEK

☒ 1 = Rounded      2 = Angular

## C. BRUSH

☒ 1 = Short      2 = Medium      3 = Long

## D. CREASE

☒ 2 = Width 60% or less of Kernel  
 2 = Width 80% or less of Kernel  
 3 = Width Nearly as Wide as Kernel

☒ 1 = Not Collared      2 = Collared

☒ 2 = Depth 20% or less of Kernel  
 2 = Depth 35% or less of Kernel  
 3 = Depth 50% or less of Kernel

13. SEED: (continued)

E. COLOR

1 = White 2 = Amber 3 = Red 4 = Other (SPECIFY) Med. Brown

F. TEXTURE

1=Hard 2=Soft

G. PHENOL REACTION (see instructions):

1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black

14. DISEASE: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)  
PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

Stem Rust (*Puccinia graminis* f. sp. *tritici*)

Stripe Rust (*Puccinia striiformis*)

Tan Spot (*Pyrenophora tritici-repentis*)

Halo Spot (*Selenophoma donacis*)

*Septoria nodorum* (Glume Blotch)

*Septoria avenae* (Speckled Leaf Disease)

*Septoria tritici* (Speckled Leaf Blotch)

Scab (*Fusarium* spp.)

"Black Point" (Kernel Smudge)

Barley Yellow Dwarf Virus (BYDV)

Soilborne Mosaic Virus (SBMV)

Wheat Yellow (Spindle Streak) Mosaic Virus

Wheat Streak Mosaic Virus (WSMV)

Other (SPECIFY)

Other (SPECIFY)

Leaf Rust (*Puccinia recondita* f. sp. *tritici*)

Loose Smut (*Ustilago tritici*)

Flag Smut (*Urocystis agropyri*)

Common Bunt (*Tilletia tritici* or *T. laevis*)

Dwarf Bunt (*Tilletia controversa*)

Karnal Bunt (*Tilletia indica*)

Powdery Mildew (*Erysiphe graminis* f. sp. *tritici*)

"Snow Molds"

Common Root Rot (*Fusarium*, *Cochliobolus* and *Bipolaris* spp.)

Rhizoctonia Root Rot (*Rhizoctonia solani*)

Black Chaff (*Xanthomonas campestris* pv. *translucens*)

Bacterial Leaf Blight (*Pseudomonas syringae* pv. *syringae*)

Other (SPECIFY)

Other (SPECIFY)

Other (SPECIFY)

15. INSECT: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

Hessian Fly (*Mayetiola destructor*)

☐

Stem Sawfly (*Cephus* spp.)

☐

Cereal Leaf Beetle (*Oulema melanopa*)

☐

Russian Aphid (*Diuraphis noxia*)

☐

Greenbug (*Schizaphis graminum*)

☐

Aphids

☐

Other (SPECIFY)

☐

Other (SPECIFY)

☐

Other (SPECIFY)

☐

Other (SPECIFY)

☐

Other (SPECIFY)

☐

Other (SPECIFY)

☐

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:



**EXHIBIT D****Additional Description of The Variety****Terral TV8555**

Terral TV8555 is an medium early maturing soft red winter wheat bred for the mid south I-20 North to the Missouri boot-heel). It is a high yielding winter hardy medium height (35 inches) wheat, with a vernalization requirement of 5-6 weeks. It is very uniform with good standability and bearded heads. Terral TV8555 does well across all soil types, has good test weight (55 to 57 lb.) and is resistant to Mid-south races of Leaf Rust, Stem Rust, Powdery Mildew, Scab, and moderate resistance to Soil Borne Mosaic Viruses. Heads are tan in color at maturity, medium long in length, with medium awns.

**Milling and Baking Quality**

<u>Quality Parameter</u>	<u>Terral TV8555</u>	<u>Coker 9835</u>	<u>Standard (Saluda)</u>
Milling quality score	91.5	107.4	100.0
Baking quality score	92.7	102.0	100.0
Combined quality score	91.5	102.0	100.0
Micro T.W. LB/BU	58.8	59.3	58.1
Soft. equiv.	51.2	60.3	57.4
Flour yield	68.2	71.2	69.4
Flour protein	8.7	7.7	8.7
Micro AWRC	60.9	62.8	60.5
Cookie Diam.	17.3	17.4	17.1

Data from Advanced Nursery Evaluation for Soft Wheat Milling and Baking Quality 1993 crop, Uniform Southern Nursery.

# **EXHIBIT E** **STATEMENT OF THE BASIS OF OWNERSHIP**

*Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).*

<b>1. NAME OF APPLICANT(S)</b>  Terral Seed, Inc.	<b>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER</b>  L890714	<b>3. VARIETY NAME</b>  Terral TV8555
<b>4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)</b>  P.O. Box 826 604 Blount Street Lake Providence, LA 71254	<b>5. TELEPHONE (include area code)</b>  (318) 559-2840	<b>6. FAX (include area code)</b>  (318) 559-2888
<b>7. PVPO NUMBER</b>  9600402		

**8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.** ☒ YES ☐ NO

**9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country** ☒ YES ☐ NO

**10. Is the applicant the original breeder? If no, please answer the following:** ☐ YES ☒ NO

a. If original rights to variety were owned by individual(s):  
Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country

☒ YES ☐ NO

b. If original rights to variety were owned by a company:  
Is the original breeder(s) U.S. based company? If no, give name of country

**11. Additional explanation on ownership (If needed, use reverse for extra space):**

Terral Seed, Inc. is the owner of Terral TV8555 through purchase of the variety.

## **PLEASE NOTE:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

*Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.*

*Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.*

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*To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.*

STD-470-E (03-96)